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(71) Applicant (for all designated States except US): IMPERIAL COLLEGE INNOVATIONS LIMITED [GB/GB]; Sherfield Building, Imperial College, London SW7 2AZ (GB).

(72) Inventors; and
(75) Inventors/Applicants (for US only): STAUSS, Hans, Josef [DE/GB]; Department of Immunology, Hammersmith Hospital Campus, Imperial College London, Du Cane Road, London W12 0NN (GB). GAO, Liqian [GB/GB]; Dept. of Immunology, Hammersmith Hospital

Campus, Imperial College London, Du Cane Road, London W12 0NN (GB). XUE, Shao-An [CN/GB]; Dept. of Immunology, Hammersmith Hospital Campus, Imperial College London, Du Cane Road, London W12 0NN (GB).

(74) Agent: MILES, John; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

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(54) Title: THERAPEUTICALLY USEFUL MOLECULES

Human TCR V α -1.5 (V α -8.2) coding sequence

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ATGCTCCTGC TGCTCGTCCC AGTGCTCGAG GTGATTTTA CTCTGGGAGG
AACAGAGGCC CAGTCGGTGA CCCAGCTGA CAGCCACGTC TCTGTCTCTG
AAGGAACCCC GGTGCTGCTG AGGTGCAACT ACTCATCTTC TTATTCACCA
TCTCTCTTCT GGATATGTGAA ACACCCCCAAC AAAGGACTCTCC AGCTTCTCT
GAAGTACACA TCAGCGGCCA CCCTGGTTAA AGGCATCAAC GGTTTGAGG
CTGAATTAA GAAGAGTGAA ACCTCCTTCC ACCTGACGAA ACCCTCAGCC
CATATGAGCG ACAGCGGCTGA GTACTTCTGT GTTGTGAGTC CTTTTCAAGG
AGGAGGTGCT GACGGACTCA CCTTGGCAA AGGGACTCAT CTAATCATCC
AGCCCTATAT CCAGAACCCCT GACCCTGCCG TGTACCAGCT GAGAGACTCT
AAATCCAGTG ACAAGTCTGT CTGCCTATTCC ACCGATTGG ATTCTCAAAC
AAATGTGTC ACAAAGTAAGG ATTCTGATGT GTATATCACAA GACAAAACTG
TGCTAGACAT GAGGTCTATG GACTTCAAGA GCAACAGTGC TGTGGCCTGG
AGCAACAAAT CTGACTTTGC ATGTGAAAC GCCTTCAACA ACAGCATTAT
TCCAGAAGAC ACCTTCTTCC CCAGCCCCAGA AAGTCTCTGT GATGTCAAGC
TGGTCGAGAA AAGCTTGAA ACAGATACGA ACCTAAACTT TCAAAACCTG
TCAGTGATTG GGTTCCGAAT CCTCCTCCCTG AAAGTGGCCG GGTTTAATCT
GCTCATGACG CTGCGGCTGT GGTCCAGCTG A
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(57) Abstract: A T cell receptor molecule (TCR) containing an alpha chain portion and a beta chain portion wherein the alpha chain portion contains three complementarity determining regions (CDRs): CDR1 α : SSYSPLS CDR2 α : YTSAATL CDR3 α : VVSPF-SGGGADGLT or comprising or consisting of SPFSGGGADGLT and the beta chain portion contains three complementarity determining regions (CDRs): CDR1 β : DFQATT CDR2 β : SNEGSKA CDR3 β : comprising SARDGGEG or comprising or consisting of RDGGEGSETQY, or wherein up to three amino acid residues in one or more CDRs are replaced by another amino acid residue. The invention also includes polynucleotides encoding the TCR molecules, and host cells containing the said polynucleotides. Patient derived T cells may have the polynucleotides encoding the TCR molecules introduced therein, and the engineered T cells may be introduced into the patient in order to combat a WT1-expressing malignancy.

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SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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